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Please cancel the existing Sequence Listing for the above-identified application, replace it with the substitute Sequence Listing appended hereto, and insert the same at the end of the application.

In the Claims:

1058825-000102
Please substitute pending claims 1-3, 8-10 and 35 with the following claims 1-3, 8-10 and 35:

1. (Once amended) A method for the production of modified endosperm, which comprises transforming a plant, or plant propagating material, with a nucleic acid molecule comprising one or more regulatory sequences capable of directing expression in the male or female germ line and/or gametes of the resultant plant, and one or more sequences whose expression or transcription product(s) is/are capable of modulating genomic imprinting

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2. (Once amended) A method for the production of modified endosperm, which comprises transforming a plant, or plant propagating material, with a nucleic acid molecule comprising one or more regulatory sequences capable of directing expression within the developing gynoecium, especially the cell lineage that gives rise to or comprises the female germ line (megasporecyte tissue), within the ovule of the resultant plant, and one or more sequences whose expression or transcription product(s) is/are capable of modulating genomic imprinting.

3. (Once amended) A method for the production of modified endosperm which comprises transforming a plant, or plant propagating material, with a nucleic acid molecule comprising one or more regulatory sequences capable of directing expression within the developing stamen, especially the cell lineage that gives rise to or comprises the male germ line (microsporocyte tissue) of the resultant plant and one or more sequences whose expression or transcription product(s) is/are capable of modulating genomic imprinting.

8. (Once amended) A method for the production of modified endosperm, which comprises transforming a plant, or plant propagating material, with a nucleic acid molecule comprising one or more regulatory sequences capable of directing expression in the male or female germ line and/or gametes of the resultant plant, and one or more sequences whose expression or transcription product(s) is/are capable of altering the degree of methylation of nucleic acid.

9. (Once amended) A method for the production of modified endosperm, which comprises transforming a plant, or plant propagating material, with a nucleic acid molecule comprising one or more regulatory sequences capable of directing expression within the developing gynoecium, especially the cell lineage that gives rise to or comprises the female germ line (megaspore tissue), within the ovule of the resultant plant, and one or more sequences whose expression or transcription product(s) is/are capable of altering the degree of methylation of nucleic acid.

10. (Once amended) A method for the production of modified endosperm which comprises transforming a plant, or plant propagating material, with a nucleic acid molecule comprising one or more regulatory sequences capable of directing expression within the developing stamen, especially the cell lineage that gives rise to or comprises the male germ line (microsporocyte tissue) of the resultant plant and one or more sequences whose expression or transcription product(s) is/are capable of altering the degree of methylation of nucleic acid.

35. (Once amended) A method for modulating genomic imprinting in plants, which comprises transforming a plant, or plant propagating material, with a nucleic acid molecule comprising one or more regulatory sequences capable of directing expression in the male or female germ line and/or gametes of the resultant plant, and one or more sequences whose expression or transcription(s) is/are capable of altering the degree of methylation of nucleic acid.

Please add the following new claims:

36. (New) A method as claimed in claim 18, wherein the plant to be transformed produces seed in the absence of fertilisation.

37. (New) A method as claimed in claim 36, wherein the plant is an apomictic plant.

38. (New) The use of a nucleic acid molecule as claimed in claim 23 in overcoming a barrier to endosperm development in seeds of plants.

39. (New) The use as claimed in claim 38, wherein the plants produce seed in the absence of fertilisation.



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